



LR100 Series  
Digital Camera  
User Manual

## Copyright

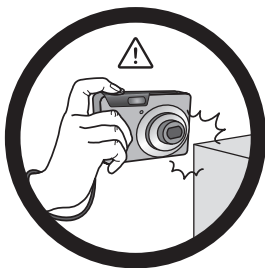
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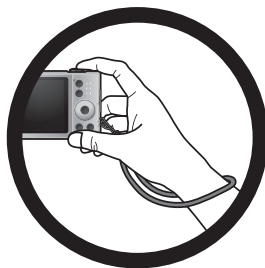
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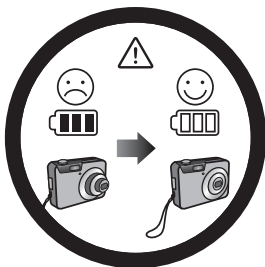
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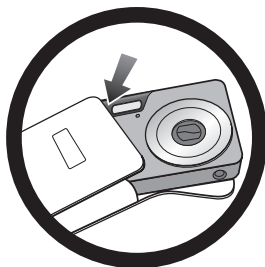
Do not hold the camera by excessive force. Plus, be sure to protect the camera from strong impacts.



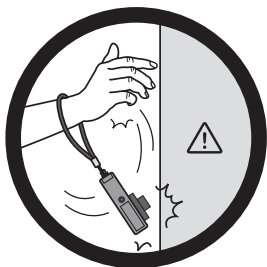
To avoid accidental falling, please attach the hand strap to the camera and always hold the camera by keeping the hand strap around your wrist.



If the battery suddenly depleted and caused the lens fail to retract, please carefully protect the lens to avoid collision and insert a battery with full power ASAP.



When the camera is not in use, always turn the power off and make sure the lens has retracted successfully before storing the camera in its case. If you do not intend to use the camera for a long time, please remove the battery from the camera and store the battery carefully.



Keep your camera away from sharp objects and avoid collision.



When the camera is not in use, please place it in a steady place. Plus, always keep your camera away from pressure or any other similar environment (for example, in a pant pocket) to avoid possible damage.



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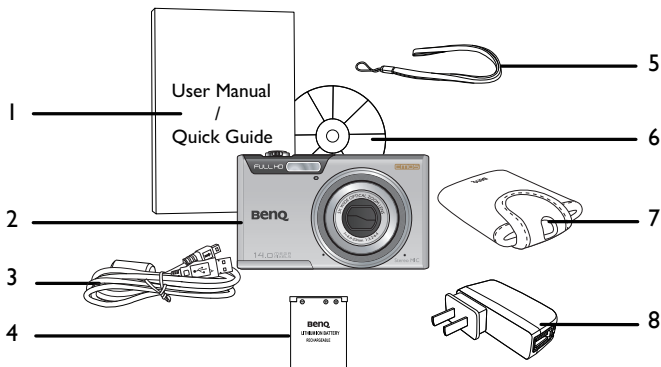
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# Touring the camera

## Checking the package contents

Carefully unpack your kit box and ensure that you have the following items.



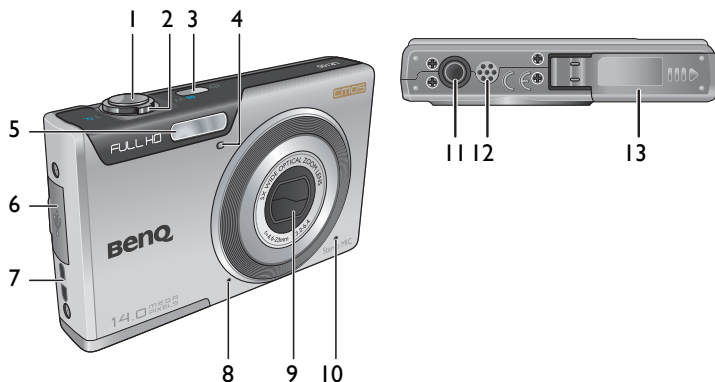
1. User Manual or Quick Guide
2. Digital camera
3. USB cable
4. Battery
5. Hand strap
6. Software & User Manual CD
7. Pouch (optional)
8. AC power adapter



- All pictures, screen captures, icons, and colors used in this manual are for illustration only. Actual and available products, accessories, as well as their appearance may vary depending on sales region.
- If any items are missing or damaged, contact your dealer.
- Save the packaging for future shipment or storage.

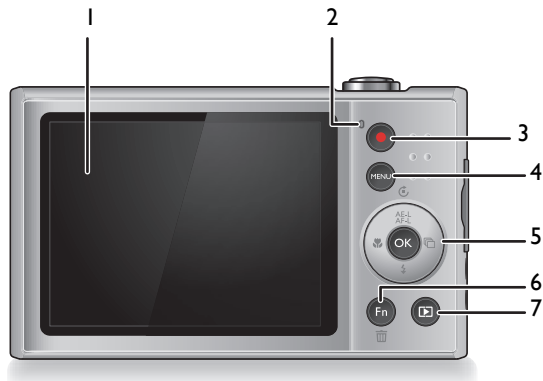
## Camera

### Front and bottom views



1. Shutter
2. Zoom lever
3. Power button (⏻)
4. Self-timer LED indicator
5. Flash
6. USB / HDMI port cover
7. Strap eyelet
8. Microphone
9. Lens
10. Microphone
11. Tripod mount
12. Speaker
13. Battery/card cover

## Rear view



1. LCD display
2. Status LED
3. Record Video button (●)
4. Menu button (MENU)
5. Multifunctional buttons (including a 4-way control and an OK button)
6. Function / Delete button (Fn)
7. Playback button (▶)







- It is normal for the camera to become warm during operation especially during video recording, because the camera casing and LCD might conduct heat.
- The LCD display on this camera is manufactured with sophisticated technology, and more than 99.99% of the pixels on the LCD display meet standard specifications. Yet, it is possible that less than 0.01% of the pixels on the LCD display may have some light spots or show unusual colors. This is normal and does not indicate display malfunction, nor will this affect the pictures you take with the camera.
- The LCD monitor looks darker in strong sunlight or bright light. This is not a malfunction.
- To prevent your images from being blurred while pressing the shutter, always hold the camera steady. This is especially important when you are shooting under low lighting conditions, under which your camera may reduce the shutter speed to ensure your images are properly exposed.

## LED Indicator

Indicator	State	Description
Status LED	No light	The digital camera is off.
	Solid green	<ul style="list-style-type: none"> <li>The digital camera is ready to capture images.</li> <li>The digital camera is powering on, or is in the power-saving mode.</li> </ul>
Status LED	Blinking green	<ul style="list-style-type: none"> <li>The digital camera cannot focus.</li> <li>The digital camera is capturing a video clip.</li> <li>The flash is charging, or USB communication/transfer is in progress.</li> </ul>
Self-timer LED	Blinking red	The self-timer function is activated.

## Battery status

Icon	Description
	Battery power is full.
	Battery power remains adequate.
	Battery power is low.
	Battery power is very low. You should replace the battery ASAP.



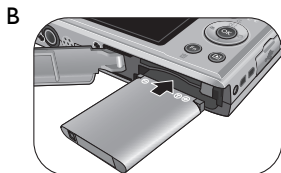
## Preparing the camera for use

Use only the specified battery for the camera, and always turn off the camera before removing the battery.



To install the battery:

1. Release and open the battery/card cover (A).
2. Insert the battery in the correct direction by matching the + - label on the battery slot (B).
3. Push the battery all the way down.
4. Close and lock the battery/card cover (D).



To remove the battery:

1. Release and open the battery/card cover (C).
2. Pull the battery out.
3. Close and lock the battery/card cover (D).

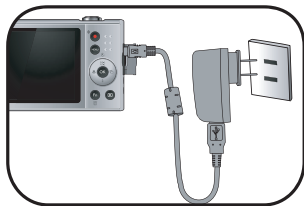


## Charging the battery

The battery charge status affects the camera performance. To maximize the performance and the battery life, fully charge the battery via a wall outlet (or a computer), and then fully discharge it through normal use at least once.

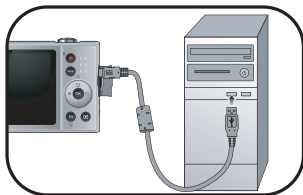
To charge the battery via a wall outlet:

1. Turn off the camera.
2. Insert the battery into the camera.
3. Open the USB/HDMI port cover.
4. Connect one end of the USB cable to the camera.
5. Connect the other end of the USB cable to the power adapter.
6. Plug in the power adapter to a wall outlet. The battery will start charging immediately.



### To charge the battery via a computer:

1. Turn on the computer.
2. Turn off the camera.
3. Insert the battery into the camera.
4. Open the USB/HDMI port cover.
5. Connect one end of the USB cable to the camera.
6. Connect the other end of the USB cable to your computer. The battery will start charging immediately.



- You need to follow the instructions above to ensure successful charging.
- Turn off the camera before removing the battery.
- Please fully charge the Li-ion battery before using it for the first time.
- When the battery is being charged, the status LED indicator flashes in green. When the battery is fully charged, the status LED indicator is off.
- Use only the specified battery type. Using other types of battery may damage the camera and invalidate the warranty.
- Ensure that the Li-ion battery is inserted into the product with correct polarity. Incorrect polarity may damage the camera or cause fire.
- Download all pictures and remove the battery from the camera if you are going to store the camera for a long time.
- Damage caused by the use of an incorrect power adapter is not covered under the warranty.
- The battery may be warm after being charged or used. This is normal and not a malfunction.
- When using the camera in a cold environment, keep the camera and its battery warm by holding it inside your jacket or another warm protective environment.

## Using multifunctional buttons

You can choose camera settings by pressing the 4-way control or the OK button.

### 1. Left/Focus:

- Scrolls left in menus.
- Selects the desired focus mode. See ["Selecting the focus mode" on page 20](#) for details.

### 2. Up/AE/AF Lock:

- Scrolls up in menus.
- Turns AE/AF Lock function on/off. See ["Using the AE/AF lock" on page 20](#) for details.
- Rotates an image. See ["Rotating an image" on page 52](#) for details.

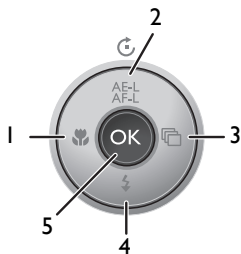
### 3. Right/Continuous shot:

- Scrolls right in menus.
- Selects the desired continuous shooting mode. See ["Using the continuous shooting mode" on page 21](#) for details.

### 4. Down/Flash:

- Scrolls down in menus.
- Selects the desired flash mode. See ["Using the flash mode" on page 22](#) for details.

### 5. OK: Confirms a chosen setting.



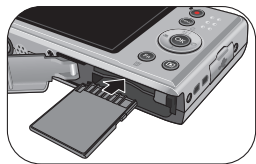
## Using an SD card

The camera comes with internal memory for storing captured images, video clips, or audio files. You can also add an SD card to store more files.



### To install an SD card:

1. Make sure the camera is turned off.
2. Release and open the battery/card cover.
3. Insert an SD card in the correct direction.
4. Close and lock the battery/card cover.



### To remove an SD card:

1. Make sure the camera is turned off.
2. Release and open the battery/card cover.
3. Lightly press the edge of the memory card to eject.
4. Close and lock the battery/card cover.



Before initial use of an SD card, please format the card first by pressing MENU >



> **Manage Memory** > OK / > **Format** > OK > Yes.

## Initial setting

You will be prompted to set up the language and the date and time when the camera is turned on for the first time.

### Setting language

Selects the language version shown on the screen.

To select a language:

1. Press MENU > (Step 1 is needed only after the initial setting is done.)
2. Press  $\text{AE-L}$  /  $\text{AF-L}$  or to select **Language**, and then press OK or .
3. Press  $\text{AE-L}$  /  $\text{AF-L}$ , , , or to select the desired language.
4. Press OK to set the language.



### Setting date and time

When using the camera for the first time or when the battery has been removed from the camera for a long time, you need to set the date and time. The date and time is recorded when an image is captured.

To set date and time:

1. Press MENU > (Step 1 is needed only after the initial setting is done.)
2. Press  $\text{AE-L}$  /  $\text{AF-L}$  or to select **Date & Time**, and then press OK or .
3. Press  $\text{AE-L}$  /  $\text{AF-L}$  or to adjust the date, time, and date format.

Press or to move to another field as needed.

4. Press OK to confirm the settings.





# Operating the camera

The procedure below is a general guideline for basic operation. It is particularly useful if you are new to the camera.

1. Press  to turn the power on.

By default, the camera is set to **Capture** mode.



Remember to follow the on-screen display or slide the **Zoom** lever to   for instructions on the scene menu (wherever available). Next, press corresponding buttons to access and set more options. At any time, you can cancel the current operation by pressing MENU to return to your previous step.

2. Compose the image.

Use the **Zoom** lever to zoom-in/zoom-out on the subject.


3. Press the shutter halfway to set automatic focus.


- Once the focus is set, the focus frame color will turn from white (unfocused) to yellow-green (focused). If the focus frame color is red and you press the shutter down, it might result in a blurred photo.







4. Press the shutter down fully to capture the image.

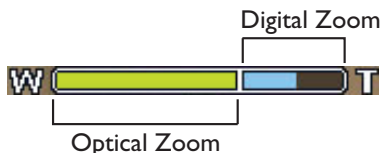
5. To record video, press . The video recording automatically starts.

- While recording, use the **Zoom** lever to zoom-in/zoom-out on the subject. During zoom-in/out, by default, the sound is not recorded. To change the setting, see "**Zoom**" on page 47 for details.



- Press  again to stop video recording.

6. To switch to **Playback** mode, press . In **Playback** mode, you can view captured images or recorded videos.

- You can press  or  to view other images/videos, slide the **Zoom** lever to   to zoom-in on a captured image, or slide the **Zoom** lever to   to view 9-thumbnail images on the screen.



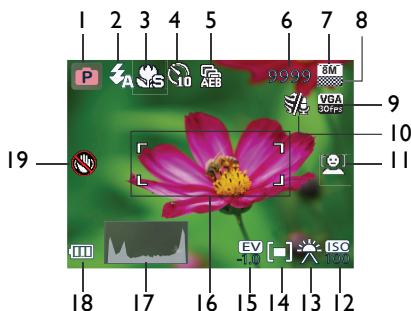
- To switch back to **Capture** mode, you can do one of the following:

- Press the shutter.
- Press .
- Press .



- During zoom-in/out, there is a separator in the zoom bar between  $\top \times$  and  $\times W$ . For best image quality, it is recommended to use optical zoom only by keeping the magnification within  $\times W$  and the separator.
  - Flash is automatically turned off during video recording.
  - During video recording, the recording time is continuous, but recording will stop once the memory card space is full.
  - At any time, you can press  $\text{P}$  to turn off the camera.
-

# Capture mode








Item	Description	Page reference
1	Scene mode	32
2	Flash mode	22
3	Focus mode	20
4	Drive mode	43
5	AEB	21
6	Number of shots available	--
7	Image resolution	25
8	Image quality	44
9	Video resolution	31
10	Wind cut	31
11	Face tracking	43
12	ISO	27
13	White balance	26
14	AE metering	28
15	Exposure value (EV)	26
16	AF area	43
17	Histogram	--
18	Battery status	12
19	Camera shake warning	--


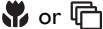



- While the shutter is pressed halfway, the shutter speed and the aperture are also shown on the screen (not available during video recording).
- While the shutter is pressed down halfway, the AF area color changes to yellow-green, camera shake warning (appears only if the camera itself detects possible shaking), aperture, shutter speed and ISO setting are also shown on the screen.

## Selecting the focus mode

Icon	Mode	Description
	<b>Auto focus</b>	Adjusts focus automatically.
	<b>Super Macro</b>	Used when capturing images at a close distance.
	<b>Pan Focus</b>	Used when you want to capture the subjects in a certain focus range.
	<b>Infinity</b>	Used when capturing images at long distance.
	<b>Manual focus</b>	Adjust the focus manually.


To select the focus mode:

1. Set the camera to **Capture** mode.
2. Press  to enter the focus menu.
3. Press  or  to select your desired focus mode.
4. Press OK to confirm the setting.

## Using the AE/AF lock

The AE/AF Lock function is used to lock exposure and focus on a desired image.

To set the AE/AF Lock:







1. Set the camera to **Capture** mode.
2. Press both the shutter halfway and  to lock AE/AF.

An  icon appears on the screen indicates the AE/AF Lock is enabled.






3. Press the shutter down fully to capture the image.

## Using the continuous shooting mode






Icon	Mode	Description
	<b>Off</b>	Captures a single photo at a time.
	<b>Burst</b>	Continuously takes pictures as long as you keep pressing the shutter. The flash is always off in this mode.
	<b>Hi-speed Burst</b>	Press and hold the shutter to take continuous shots at 10fps (the maximum number of photos is 10).
	<b>Speedy Burst 120</b>	Use this feature to capture 60 photos with at least 1/120 shutter speed with a press of the shutter.
	<b>Multi-shot 16</b>	Press the shutter to take 16 shots at 30 fps and combines them as a single photo.
	<b>AEB</b>	Automatically takes 3 pictures with slightly different settings in the shutter speed or the aperture value.

To select a continuous shooting mode:




1. Set the camera to **Capture** mode.
2. Press  to enter the continuous shooting menu.
3. Press  or  to select your desired continuous shooting mode.
4. Press **OK** to confirm the setting.

## Using the flash mode

The flash offers additional light source (usually used in a low-light environment). You can capture an image using one of the following flash modes.

Icon	Mode	Description
	<b>Auto Flash</b>	The flash fires automatically based on the photographic conditions.
	<b>Auto Anti Red-eye</b>	Reduces the red-eye phenomenon when capturing natural-looking images of people and animals in low-light conditions. Be sure to ask the subject to look at the camera lens or get as close to the camera as possible. The flash fires automatically based on the photographic conditions.
	<b>Force On</b>	The flash always fires regardless of the surrounding lighting conditions. Select this mode when capturing images with high contrast (backlighting) and deep shadows.
	<b>Slow Sync</b>	Fires the flash immediately at the beginning of exposure with a longer shutter speed, so balanced ambient lighting of the foreground subject and background scene can be reached in a low-light environment.
	<b>Force Off</b>	The flash does not fire. Select this mode when flash photography is prohibited, or when the distance to the subject is beyond the effective range of the flash.

To select a flash mode:

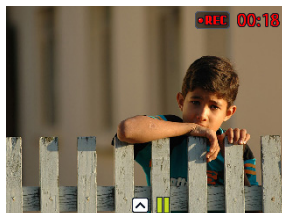
1. Set the camera to **Capture** mode.
2. Press  to enter the flash menu.
3. Press  or  to select your desired flash mode.
4. Press OK to confirm the setting.

## Recording Videos

You can record video with this camera. Set the movie settings before you start recording a video. See **"Movie Format" on page 31** for details.


To record the video clip:

1. Press **●** to start recording.
  - Use the **Zoom** lever to zoom in/out on the subject.
  - Press  $\begin{smallmatrix} \text{AE-L} \\ \text{AF-L} \end{smallmatrix}$  to pause the recording and press  $\begin{smallmatrix} \text{AE-L} \\ \text{AF-L} \end{smallmatrix}$  again to resume.
2. Press **●** to stop the recording.

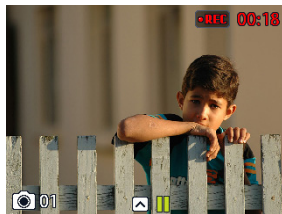


- The camera will automatically stop recording when the memory capacity is full.
- Recording a video at Full HD and HD mode requires a Class 4 or above SDHC card and the longest recording time is 29 minutes.
- Digital zoom is not available while recording a video.

## Using PIV function

During video recording, you can capture an image by pressing the shutter. An  icon and the number of shots appear on the screen.

This feature is only applicable to videos with size of 1080p (30fps), 720p (30fps), or VGA (30fps).

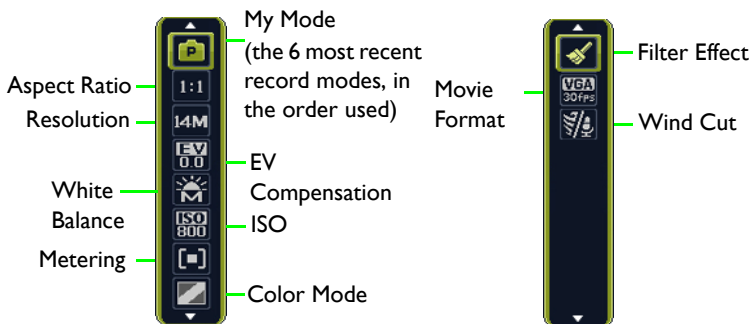


- When the movie size is 1080p (30fps) or 720p (30fps), the capture photos are saved at 1920 x 1080 or 1280 x 720 resolution.
- When the movie size is VGA (30fps), the capture photos are saved at 640 x 480 resolution.

# More on the capture mode

## Using the Function menu





Press the Function button  $F_n$  to access most common features for photos and videos. Depending on your settings, the displayed option icons in the Function menu may vary.





To use the Function menu:

1. Press  $F_n$  to enter the Function menu, the currently selected settings are shown.
2. Press  $\overline{AE-L}$  or  $\overline{AF-L}$  or  $\downarrow$  to go to another option, or press  $\uparrow$  or  $\square$  to select a setting.
3. Press OK to confirm the setting.

## Aspect Ratio

Icon	Description
	Sets the aspect ratio (width:height) to 4:3 (default).
	Sets the aspect ratio (width:height) to 3:2.
	Sets the aspect ratio (width:height) to 16:9.
	Sets the aspect ratio (width:height) to 1:1.






To select an aspect ratio:

1. Press **F<sub>n</sub> > Aspect Ratio**.
2. Press  or  to select a setting.
3. Press **OK** to confirm setting.





The pixels of each image is determined by the combination of aspect ratio and resolution you select. For actual pixels of each combination, see the specifications page for details.

## Resolution

Icon	Description	Icon	Description
	14 megapixels		3 megapixels
	8 megapixels		VGA
	5 megapixels	--	--



To select an image size:

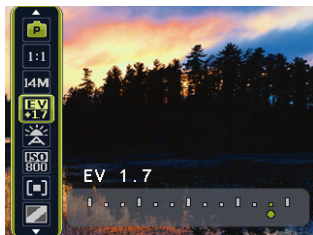
1. Press **F<sub>n</sub> > Resolution**.
2. Press  or  to select a setting.
3. Press **OK** to confirm setting.

## EV Compensation

EV (Exposure Value) lightens or darkens the entire image. Adjust EV when the brightness between the subject and the background is not balanced, or when the subject occupies only a small part of the picture.








To select an EV:

1. Press **F<sub>n</sub>** > **EV Compensation**.
2. Press  or  to select an EV from the EV bar.
3. Press **OK** to confirm setting.





## White Balance

Compensates for color temperatures in different lighting conditions, so white and other colors can display properly when you capture images.










Icon	Mode	Description
	<b>Auto</b>	Adjusts white balance automatically.
	<b>Daylight</b>	Used in bright daylight conditions.
	<b>Cloudy</b>	Used in twilight or shady conditions.
	<b>Tungsten</b>	Used when subjects are lit by tungsten (incandescent) lighting.
 	<b>Fluorescent H</b> <b>Fluorescent L</b>	Adjusts for fluorescent lighting. Corrects the green hue of fluorescent lighting. Ideal for indoor photos under fluorescent lighting without a flash.
	<b>Manual</b>	Used when you want to manually adjust white balance in a particular lighting condition.

To select White Balance:



1. Press **F<sub>N</sub> > White Balance**.
2. Press  or  to select a white balance option. The preview result based on the currently selected white balance is shown on the screen. (When selecting the manual mode, you must first point the camera at a blank sheet of white paper or something similar and press the shutter for the camera to detect proper colors.)
3. Press **OK** to confirm setting.

## ISO




ISO configures the camera's sensitivity to light. The higher the ISO value, the brighter picture you can take in a low-light environment. Yet, you may see more noise in the picture as you increase the ISO value.

Icon	Description
	Automatically sets the ISO value.
 	Equivalent to color ISO 100/200 film. Used for outdoor photography in bright sunlight.
    	Equivalent to color ISO 400/800/1600/3200/6400 film. Used it in a low-light environment or where the flash light is not allowed.  ISO 3200/6400 for resolution of 3M or under only.



To select an ISO value:

1. Press **F<sub>N</sub> > ISO**.
2. Press  or  to select an ISO Value.
3. Press **OK** to confirm setting.

## Metering







Icon	Mode	Description
	<b>Matrix</b>	Detects the exposure based on multiple points in the subject area.
	<b>Gen. Weight</b> (Center Weight)	Detects the exposure of the entire shooting screen, but gives more importance to the values near the center.
	<b>Spot</b>	Detects the exposure based on the center spot in the subject area.

To select an AE metering option:





1. Press **F<sub>N</sub>** > **Metering**.
2. Press  or  to select an AE metering option.
3. Press **OK** to confirm setting.

## Color Mode

Adds color filter effects to the image or video you want to capture.

Icon	Mode	Description
	<b>Normal</b>	No effects are added.
	<b>Vivid</b>	Adds an effect with very clear and bright color tones.
	<b>Sepia</b>	Adds an effect with dark reddish brown color tones, so the image or video looks as if it is old.
	<b>Color Accent (Red)</b>	Highlights the subjects by keeping the red color domain of an image only while making other regions black and white.
	<b>Color Accent (Green)</b>	Highlights the subjects by keeping the green color domain of an image only while making other regions black and white.
	<b>Color Accent (Blue)</b>	Highlights the subjects by keeping the blue color domain of an image only while making other regions black and white.





Icon	Mode	Description
	<b>B/W (Black and White)</b>	Adds an effect with monochromatic color tones.
	<b>Vivid Red</b>	The image becomes reddish.
	<b>Vivid Green</b>	The image becomes greenish.
	<b>Vivid Blue</b>	The image becomes bluish.



Before






After - when **Color Accent (Red)** is appliedAfter - when **Color Accent (Green)** is appliedAfter - when **Color Accent (Blue)** is applied

To select a color mode effect:



1. Press **F<sub>11</sub> > Color Mode**.
2. Press  or  to select an option. The preview result based on the currently selected color mode is shown in the middle thumbnail.
3. Press **OK** to confirm setting.

## Filter Effect

Lets you select the desired filter to add to the image you want to take.





Icon	Mode	Description
	<b>Off</b>	No digital filter is used.
	<b>Fisheye</b>	Simulates a fisheye lens effect and creates a distorted hemisphere-like image.
	<b>Toy</b>	Simulates a shallow depth of field by gradually blurring the top and bottom areas of a composition.
	<b>Watercolor</b>	Simulates oil painting brushes to make an oil painting effect.
	<b>Sketch</b>	Uses hand drawing effect to emphasize the outlines in the photo.

To select a filter effect:



1. Press **F<sub>N</sub>** > **Filter Effect**.
2. Press  or  to select an option.
3. Press **OK** to confirm setting.

## Lomo

Adds a Lomo effect to the image or video you want to capture.

Icon	Mode	Description
	<b>Lomo 1</b>	Creates a typical Lomo effect.
	<b>Lomo 2</b>	Creates a retro Lomo effect (more sepia tone).
	<b>Lomo 3</b>	Creates a retro Lomo effect (greener tone).
	<b>Lomo 4</b>	Creates a vivid Lomo effect (bluer tone).

To select a Lomo effect:

1. Press **F<sub>N</sub>** > **Lomo**.
2. Press  or  to select an option.







- Press **OK** to confirm setting.





This menu option is only available if **Scene Mode** is set to **Lomo**.

## Movie Format

Sets the video resolution before you record a video.

Icon	Description	Icon	Description
	1080p 30 fps		VGAp 30 fps
	720p 60 fps		VGAp 120 fps
	720p 30 fps		720p Watercolor




To select a movie format:

- Press **F<sub>N</sub>** > **Movie Format**.
- Press  or  to select an option.
- Press **OK** to confirm setting.

## Wind Cut






Use this feature to reduce wind noise during video recording.

To enable Wind Cut:

- Press **F<sub>N</sub>** > **Wind Cut**.
- Press  or  to select **On** ().
- Press **OK** to confirm setting.





## Using the Capture menu



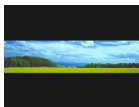




Press to access more capture options. Depending on your settings, the displayed option icons in the Capture menu may vary.

1. Press MENU > .
2. Press  $\overline{\text{AE-L}}$   $\overline{\text{AF-L}}$  or  to select a menu item.
3. Press OK or  to enter the submenu
4. Press  or  to select the desired setting.
5. Press OK to confirm the setting.
6. Press MENU to exit the menu mode.






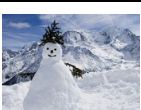
## Scene Mode




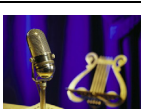
Select one of the following scene modes to fit your shooting condition.

Icon	Mode	Description
	<b>Auto Mode</b>	The camera automatically decide most settings, so you can capture images with ease.
	<b>Smart Scene</b>	Automatically selects a scene mode based on the current shooting environment.
	<b>Program</b>	You can set the shooting parameters manually.
	<b>Handheld Night Shot</b>	Captures photos without using a tripod. The camera captures a sequence of images, and then processes these images by reducing noises and blur. Finally, a rendered night photo is created.

Icon	Mode	Description
	<b>Hand. Night Portrait</b> (Handheld Night Portrait)	Captures photos without using a tripod in a low-light environment (for example, in the evening or at night) and makes the subject (usually a person) stand out. The camera captures a sequence of images (one image with flash), and then processes these images by reducing noises and blur. Finally, a rendered night portrait photo is created.
	<b>Smile Catch</b>	Automatically takes a shot when a smile is detected.
	<b>Panorama</b>	Creates a panoramic photo from multiple shots.
	<b>Pre-composition</b>	Captures the background first, so the helper can use it to take the final shot.
	<b>HDR</b>	Increases the dynamic range and enhances the details of dark areas.
	<b>Lomo</b>	Creates a Lomo-like effect by adding over saturated colors, dark corners, and so on.
	<b>Beauty Enhancer</b>	Enhances the tone of skin so that the facial skin appears smooth.

Icon	Mode	Description
	<b>Self Portrait</b>	Takes a self portrait with at least one face in a confined area.
	<b>Love Portrait</b>	Takes a self portrait with at least two faces in a confined area.
	<b>Blink Detector</b>	Warns of eye blinks if detected & lets you decide whether to save the image file.
	<b>Portrait</b>	Makes the subject (usually a person) stand out with smooth and natural-looking skin tones.
	<b>Child</b>	Increases sensitivity and emphasizes children's skin tones.
	<b>Sports</b>	Uses a high shutter speed to capture objects in motion.
	<b>Food</b>	Captures food by enhancing color brightness and giving more vivid colors.
	<b>Party</b>	Captures the party atmosphere usually under indoor light source.




Icon	Mode	Description
	<b>Candle Light</b>	Makes a picture look warm, and thus captures the mood under candle light source. Flash is always off.
	<b>Night Scene</b>	Captures photos in a low-light environment, such as in the evening or at night.
	<b>Fireworks</b>	Adds exposure time to shoot firework trails. Please keep the camera steady or use a tripod while using this mode.
	<b>Landscape</b>	Captures a scene in the distance with the focus area set to infinity and a lower aperture value. The maximum depth of view can also be achieved.
	<b>Foliage</b>	Takes a clear and vivid picture of flowers or plant leaves by emphasizing their saturation and sharpness.
	<b>Soft Flowing Water</b>	Uses a low shutter speed for motion blur. Please keep the camera steady or use a tripod while using this mode.
	<b>Sunset</b>	Captures the warmth and atmosphere (represented by hue) of sunrise or sunset.
	<b>Snow</b>	Used under a very bright light environment such as snow scenes.

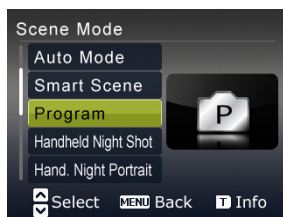
Icon	Mode	Description
	<b>Building</b>	Enhances lines & contracts to highlight the sense of the three dimensions (3D) for a building.
	<b>Web Auction</b>	Reduces the file size for faster internet upload.
	<b>Text</b>	Improves clarity & contrast when taking a close-up picture of documents.
	<b>Voice Rec.</b> (Voice Record)	Captures background sound only (no images or videos). When listening to the captured audio file later, you can see a unique icon that appears on the screen and indicates that this is an audio file.




**ISO, Metering, and White Balance** are not available in some scene modes like Auto Mode. You must select another mode like Program to enable these options.

To select a scene mode:

1. Press MENU >  > **Scene Mode**.
2. Press OK or  to enter the submenu. The currently selected scene mode shows.
3. Press AE-L/AF-L or  to select another scene mode.


















When you are selecting from different scene modes, slide the **Zoom** lever to T Q for detailed explanation of each scene mode. Slide the **Zoom** lever to  W to close the scene mode description when you are done.

4. Press OK to confirm setting.






## Smart Scene

Automatically selects the best scene mode from Portrait , Landscape , Sunset , Backlight , Backlight Portrait , Night Portrait , Night Scene , Snow , Text , Foliage , Super Macro , and Tripod .

1. Press MENU >  > **Scene Mode**.
2. Press OK or  to enter the submenu.
3. Press  $\overline{\text{AE-L}}$   $\overline{\text{AF-L}}$  or  to select **Smart Scene**.
4. Press OK to confirm setting.
5. Press the shutter halfway to set automatic focus. The selected scene mode is displayed in the top left corner of the screen.
6. Press the shutter to capture an image.




## Handheld Night Shot

Captures photos without using a tripod in a low-light environment, such as in the evening or at night.

1. Press MENU >  > **Scene Mode**.
2. Press OK or  to enter the submenu.
3. Press  $\overline{\text{AE-L}}$   $\overline{\text{AF-L}}$  or  to select **Handheld Night Shot**.
4. Press OK to confirm setting.
5. Press the shutter. Several continuous shots are thus automatically taken and then combined into one. In other words, the camera processes these images by reducing noises and blur and then renders a night shot photo.




## Handheld Night Portrait

Shoots night scene and portraits clearly without using a tripod.

1. Press MENU >  > **Scene Mode**.
2. Press OK or  to enter the submenu.
3. Press  $\overline{\text{AE-L}}$   $\overline{\text{AF-L}}$  or  to select **Hand. Night Portrait**.
4. Press OK to confirm setting.
5. Press the shutter. Several continuous shots are thus automatically taken (one shot with flash) and combined into one. In other words, the camera processes these images by reducing noises and blur and then renders a night portrait photo.

## Smile Catch

Captures an image when the subject smiles.





1. Press MENU >  > **Scene Mode**.
2. Press OK or  to enter the submenu.
3. Press  $\overline{\text{AE-L}}$ / $\overline{\text{AF-L}}$  or  to select **Smile Catch**.
4. Press OK to confirm setting.
5. The camera keeps track of the face of your subject (a white frame shows).
6. Once a smile is detected, the camera instantly takes a picture.
7. The camera continues to detect smiles and takes more pictures.



Face tracking (one face only) is always on in the **Smile Catch** mode.




## Blink Detector

Automatically detects blinking when you capture an image.

1. Press MENU >  > **Scene Mode**.
2. Press OK or  to enter the submenu.
3. Press  $\overline{\text{AE-L}}$ / $\overline{\text{AF-L}}$  or  to select **Blink Detector**.
4. Press OK to confirm setting.
5. Press the shutter to capture an image. If blinking is detected, a warning message appears on the screen.
6. Press  $\overline{\text{AE-L}}$ / $\overline{\text{AF-L}}$  or  to save or discard the image, and then press OK to confirm.

## Love Portrait

Takes a self portrait of at least two faces.

1. Press MENU >  > **Scene Mode**.
2. Press OK or  to enter the submenu.
3. Press  $\overline{\text{AE-L}}$ / $\overline{\text{AF-L}}$  or  to select **Love Portrait**.
4. Press OK to confirm setting.
5. Once faces are detected, the camera will automatically take a picture after a two-second countdown.






During the countdown, you can press the shutter to cancel the countdown. The camera will then start detecting faces again.



- The camera continues to detect faces and takes more pictures (after a two-second countdown). Face tracking automatically stops if no faces are detected.


## Panorama

Creates a panoramic photo from multiple shots. Two to three shots are stitched into one single and seamless large picture. For optimized performance, the image resolution is automatically set at 1M (1024 x 768) when this mode is selected.

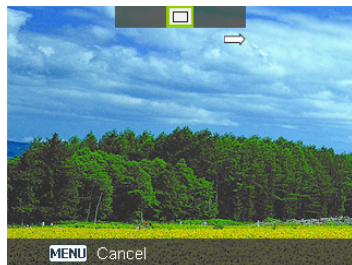
- Press MENU >  > **Scene Mode**.
- Press OK or  to enter the submenu.
- Press AE-L/AF-L or  to select **Panorama**.
- Press OK to confirm setting.
- Press AE-L/AF-L to select how shots will be stitched.
- Press the shutter to capture the first shot.




Icon	Mode	Description
	Left-to-Right	The direction of the succeeding shots will be to the right of the first shot.
	Right-to-Left	The direction of the succeeding shots will be to the left of the first shot.

7. A guidance bar appears on top of the screen. The screen icon  indicates the location of the current screen. Pan the camera following the guidance arrow.

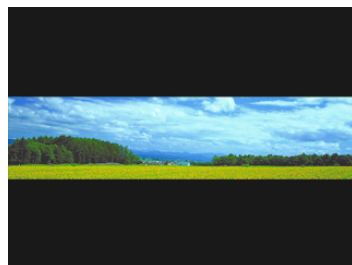
Guidance bar



8. Once the screen icon  overlaps the green block, the camera will automatically take the second shot. If you will only stitch two shots, press OK to complete the panoramic picture. Otherwise, proceed to the next step.
9. To take the third shot, pan the camera to the direction of the guidance arrow. Once the screen icon overlaps the green block, the camera will automatically take the third shot.






The camera captures the shot when the screen icon overlaps the block



Panoramic picture preview

## Lomo

Creates a Lomo-like effect by adding over saturated colors, dark corners, and so on.

1. Press MENU >  > **Scene Mode**.
2. Press OK or  to enter the submenu.
3. Press  $\overline{\text{AE-L}}$   $\overline{\text{AF-L}}$  or  to select **Lomo**.
4. Press OK to confirm setting.
5. Take a picture. (The Lomo effect will be applied to this picture immediately.)



- When the Lomo effect is applied, color shift (changes in colors) might occur.
- You can also other types of Lomo effect to the image or video that you want to capture. See "[Lomo](#)" on page 30.






Before



After






## Pre-composition









Captures the background first for positioning the final image. Ideal for asking others to take your photo.

1. Press MENU >  > **Scene Mode**.
2. Press OK or  to enter the submenu.
3. Press  $\overline{\text{AE-L}}$   $\overline{\text{AF-L}}$  or  to select **Pre-composition**.
4. Press OK to confirm setting.
5. Press the shutter to capture the background. The bottom section of the screen displays the captured background image in a semi-transparent region.
6. Use the captured background image to frame the composition, and press the shutter to capture the final image.

## Web Auction




Combines a maximum of 4 shots into one single image on a VGA (640 x 480) size, so it can be quickly used in situations such as Internet auctions.

1. Press MENU >  > **Scene Mode**.
2. Press OK or  to enter the submenu.
3. Press  $\overline{\text{AE-L}}$  or  $\overline{\text{AF-L}}$  or  to select **Web Auction**.
4. Press OK to confirm setting.
5. Press  or  to move to the number of shots you want to take, and then press OK.





Icon	Mode	Description
	<b>1 shot</b>	Takes one picture only. 
	<b>2 shots</b>	Takes two pictures based on the numeric order shown below: 
	<b>3 shots</b>	Takes three pictures based on the numeric order shown below: 
	<b>4 shots</b>	Takes four pictures based on the numeric order shown below: 

6. Press the shutter to take one picture.
7. If you are satisfied with the picture, press OK to take the next one. (If you want to re-take the previous picture, press MENU and repeat Step 6.)
8. Once you have finished taking all pictures, the camera will automatically combine these images into one.





## Drive mode

Icon	Mode	Description
	<b>10 sec / 2 sec</b> (Self-timer)	Automatically takes a picture after 10 or 2-second delay. This mode is useful when you want to be part of the picture.
	<b>Double</b>	Performs delay and capture twice: Performs a 10-second delay, then captures the image. Performs another 2-second delay then captures the image again.
	<b>Off</b>	Takes one picture at a time.

To select a drive mode:



1. Press MENU >  > **Drive Mode**.
2. Press OK or  to enter the submenu.
3. Press  or  to select the desired setting.
4. Press OK to confirm the setting.

## AF Area

Icon	Mode	Description
	<b>Face Tracking</b>	Automatically detect faces and track faces continuously.
	<b>Wide</b>	Focuses on a wide range of multiple objects.
	<b>Center</b>	Focuses on the center area of the objects.
	<b>Object Tracking</b>	Automatically re-focus the subject as the subject moves.

To select an automatic focus area:

1. Press MENU >  > **AF Area**.
2. Press OK or  to enter the submenu.





3. Press  or  to select a focusing area.
4. Press OK to confirm the setting.

If **Object Tracking** is selected, move the focus point to the center of the subject and press  $\frac{AE-L}{AF-L}$  to lock the subject (press  $\frac{AE-L}{AF-L}$  again to unlock). The AF tracking feature will now keep tracking the subject even if the subject moves. Once you see the composition you want, half press the shutter to make sure the subject is correctly focused and press the shutter fully to capture the image.




## Setting sharpness, saturation and contrast

Adjusts how colors appear in the pictures by setting sharpness, saturation, and contrast.





To set sharpness, saturation, or contrast:

1. Press MENU > , and then select **Sharpness, Saturation** or **Contrast**.
2. Press OK or  to enter the submenu.
3. Press  or  to select **High, Normal**, or **Low**.
4. Press OK to confirm the setting.

## Quality

Icon	Mode	Description
	<b>Super Fine</b>	Best image quality with the lowest compression rate. File size is the largest.
	<b>Fine</b>	Better image quality with medium compression rate. File size is medium.
	<b>Normal</b>	Good image quality with the highest compression rate. File size is the smallest.




To select an image quality level:

1. Press MENU >  > **Quality**.
2. Press OK or  to enter the submenu.
3. Press  or  to select the desired setting.
4. Press OK to confirm the setting.







## Digital Zoom

The digital zoom enlarges or shrinks the image using a software process.

Icon	Mode	Description
	<b>Wise Zoom</b>	Reduces the image size, and thus increases the effective zoom length without sacrificing image quality.
	<b>Digital Zoom</b>	Turns on the digital zoom feature.
	<b>Off</b>	Turns off the digital zoom feature.





To select a digital zoom:

1. Press MENU >  > **Digital Zoom**.
2. Press OK or  to enter the submenu.
3. Press  or  to select the desired setting.
4. Press OK to confirm the setting.

## Date Stamp

Imprints the date when a picture was taken on the picture itself.





To set the date stamp:

1. Press MENU >  > **Date Stamp**.
2. Press OK or  to enter the submenu.
3. Press  or  to select **Date**, **Date & Time**, or **Off**.
4. Press OK to confirm the setting.

## Instant Review

This feature displays a 1-second preview of the image that has just been captured.

To set the Instant Review:

1. Press MENU >  > **Instant Review**.
2. Press OK or  to enter the submenu.
3. Press  or  to select **On** or **Off**.

4. Press **OK** to confirm the setting.







During instant review, half press the shutter to return to the capture mode.

## Grid Line

Displays a framing grid on the LCD screen for taking pictures.





To set the grid line:

1. Press **MENU** >  > **Grid Line**.
2. Press **OK** or  to enter the submenu.
3. Press  or  to select **On** or **Off**.
4. Press **OK** to confirm the setting.

## S.S.F. (Super Shake-Free)

Reduces blur caused by camera vibration, and thus improves image quality and clearness.





To set S.S.F.:

1. Press **MENU** >  > **S.S.F.**.
2. Press **OK** or  to enter the submenu.
3. Press  or  to select **On** or **Off**.
4. Press **OK** to confirm the setting.

## Continuous AF

Records videos with auto focus feature.





To enable Continuous AF:

1. Press **MENU** >  > **Continuous AF**.
2. Press **OK** or  to enter the submenu.
3. Press  or  to select **On**.
4. Press **OK** to confirm the setting.

## Zoom

Sets the zoom control during video recording. If the feature is enabled, the sound during lens zooming will not be recorded.


To enable Zoom:










1. Press MENU >  > **Zoom**.
2. Press OK or  to enter the submenu.
3. Press  or  to select **On (Zoom Mute)**.
4. Press OK to confirm the setting.











The optical zoom will be disabled if the **Zoom** setting is set to **Off**.

# Setup menu


Press MENU >  to access Setup menu options. Set the necessary settings before you start taking the picture or recording the video clip.

Icon	Mode	Description
<b>Sounds</b>	<b>Startup</b>	Selects the startup sound when the camera is turned on.
	<b>Shutter</b>	Sets the shutter sound on and off.
	<b>Operation</b>	Sets the button (excluding shutter) sound on and off.
	<b>Beep Volume</b>	Adjusts the volume of the shutter sound, startup sound, operation sound and playback sound.
<b>Power Saving</b>	 [1 min.]	For power conservation, the camera automatically enters the standby mode after it has been idle for a period of time. (Press any key to resume.)
	 [3 min.]	
	 [5 min.]	
	 [Off]	The camera remains on when idle.
<b>LCD Saving</b>	 [On]	For power conservation, the LCD screen is automatically dimmed after the camera has been idle for 20 seconds. (Press any key to resume.)
	 [Off]	The LCD screen remains bright when the camera is idle.
<b>Date &amp; Time</b>	Sets the date and time.	
<b>Language</b>	Select a language for display menus and other information.	
<b>Display Mode</b>	 [On]	Displays basic information on the preview screen.
	 [Detailed Info]	Displays detail information on the preview screen
	 [Off]	Hides all icons.

Icon	Mode	Description
File Numbering	 [Series]	Stores the most recently used file number regardless of deleted files or a change of memory card. This is useful for avoiding the file name duplication when images are downloaded to a computer.
	 [Reset]	Resets file numbering each time the memory card is changed.
TV Setting	TV Out	Switches the video output according to different regional standards. Available settings: <ul style="list-style-type: none"> <li>• <b>NTSC</b>: for America, Japan, Taiwan, and others.</li> <li>• <b>PAL</b>: for China, Europe, Oceania, and others.</li> </ul>
	HDMI	Sets an image resolution for HDMI output. The available settings vary depending on the <b>TV Out</b> setting. <ul style="list-style-type: none"> <li>• If the <b>TV Out</b> is set to <b>NTSC</b>, the available HDMI settings: <b>Auto / 480p / 720p / 1080i</b>.</li> <li>• If the <b>TV Out</b> is set to <b>PAL</b>, the available HDMI settings: <b>Auto / 576p / 720p / 1080i</b>.</li> </ul>
	HDMI Control	Sets the playback control on the TV. <ul style="list-style-type: none"> <li>• <b>On</b>: Operate with the TV remote control.</li> <li>• <b>Off</b>: Operate with the camera.</li> </ul>
	 <b>TV Out</b> should be set to either <b>NTSC</b> or <b>PAL</b> depending on your region. For details about which system should be used, check with your local authorities.	

Icon	Mode	Description
<b>LCD Brightness</b>	 <b>[Auto]</b>	The LCD brightness is automatically set based on the surrounding environment.
	 <b>[High]</b>	The LCD brightness is increased.
	 <b>[Normal]</b>	The LCD brightness remains at the default value.
<b>Manage Memory</b>	 <b>[Format]</b>	Formats the internal memory or the memory card.
	 <b>[Copy to Card]</b>	Copies files from the internal memory to the memory card.
<b>Reset All</b>	Resets the entire menu and button operation settings to initial default. The following settings do not change after <b>Reset All</b> : <b>Date &amp; Time</b> setting <b>Language</b> setting <b>TV Setting</b> setting	



# Playback mode

Press  to enter the Playback mode.



Item	Description	Page reference
1	Indicates that the camera is in <b>Playback</b> mode.	--
2	Indicates that the file is protected and cannot be deleted.	57
3	Indicates this file has a voice memo or the file is an audio file.	58
4	Indicates the file is marked for printing.	--
5	Displays the shooting parameters when you took the picture or playback controls.	--
6	Date and time when the file was created.	--
7	File number	--
8	Histogram	--
9	File number, file size, shutter speed, and aperture value	--









## Options for playback and editing

When the camera is in the Playback mode, press  or  to select different files. You can also select any of the following options.



### Enlarging an image

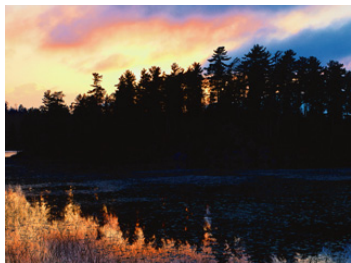
Magnifies an image, so more details can be seen.

To enlarge an image:

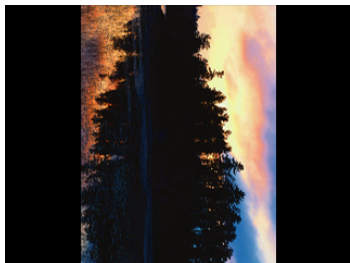
1. In **Playback** mode, press  or  to select the image you want to enlarge.
2. Slide the **Zoom** lever to   to zoom-in on a captured image.  
In Zoom mode, use the **Zoom** lever to adjust the zoom ratio.
3. Press , , , or  to move to the area you want to see.
4. Press **MENU** to return to the normal viewing size.

### Rotating an image

You can press  () to change the orientation of an image at 90 degrees clockwise at a time.



Before Rotate



After Rotate



For each rotation, the image file in the new orientation is automatically saved.



## Viewing multiple files at a time

Shows up to 9 files at a time on the screen.

To view multiple files:

1. In **Playback** mode, slide the **Zoom** lever to **W**. In this mode, maximum 9 files (shown in thumbnails) are displayed on the screen.
2. Press  $\overline{\text{AE-L}}$ / $\overline{\text{AF-L}}$ , , , or to select a file, and then press **OK** or **MENU** to view it in its normal viewing size.



If there are more than 9 thumbnails, you can press repeatedly until the scroll bar is highlighted. Then you can press  $\overline{\text{AE-L}}$ / $\overline{\text{AF-L}}$  to move to the previous 9 thumbnails or to move to the next 9 thumbnails. To cancel highlighting the scroll bar, just press .

## Playing back video clips

View recorded video clips in the playback mode.

To view a video clip:

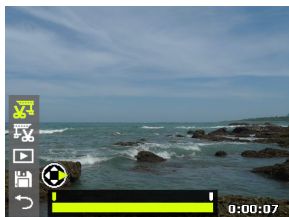
1. In **Playback** mode, press or to select the video clip you want to view.
2. Start playing back.
  - Press **OK** to start playing the video clip.
  - Press  $\overline{\text{AE-L}}$ / $\overline{\text{AF-L}}$  to pause it. Press  $\overline{\text{AE-L}}$ / $\overline{\text{AF-L}}$  again to resume.
  - Press to stop the playback.



- During video playback, press to fast forward or press to rewind.
- While pausing video playback, you can view the video frame by frame. Press to fast forward one frame, or press to rewind one frame. Press and hold to fast forward frame by frame continuously, or press and hold to rewind frame by frame continuously.

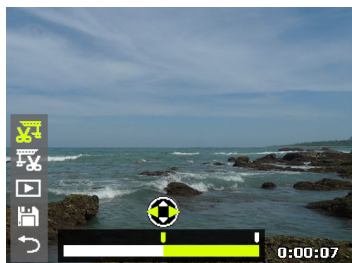
## Using Movie Edit

When a video clip is paused, press **FH** to enter Movie Edit mode. An edit panel appears on the left side of the screen.

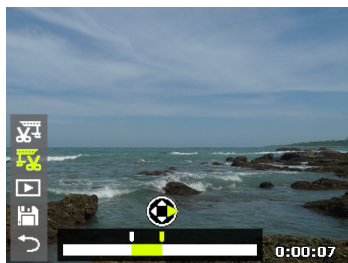


To edit the movie, do the following:

- Press **AE-L/AF-L** or **↩** to select:
  - ⏮** to set the start point to trim the beginning of the movie.
  - ⏭** to set the end point to trim the end of the movie.
- Press **🌸** or **📄** to set the movie time interval. The movie length must be more than 2 seconds.



Start Point



End Point

- To preview the video, press **AE-L/AF-L** or **↩** to select **▶** and press OK.
- To save the edited video, press **AE-L/AF-L** or **↩** to select **💾** and press OK. Select **Save** and press OK to save the file.
- To exit Movie Edit mode, press **AE-L/AF-L** or **↩** to select **↶** and press OK. It returns to the video paused display screen.









The edited video clip will be saved as a separate file and it cannot be edited again.

## Adjusting the playback volume

Increase or decrease the volume of video clips, audio clips, or voice memos.

To adjust the playback volume:

1. In **Playback** mode, press  or  to select a video clip, audio clip, or voice memo that you want to playback.
2. Adjust the volume.
  - Slide the **Zoom** lever to   to increase the volume.
  - Slide the **Zoom** lever to   to decrease the volume.












The volume can be set during playback, but not during rewind, fast forward, or pause.

## Slideshow

Sets the time interval for presenting a series of captured image and video files (first frame only).

To play a slideshow:

1. In **Playback** mode, press MENU >  > **Slideshow** > OK or .
2. Change the slideshow settings.
  - Press  or  to set one of the following slideshow effects:
    -  Applies a transition effect from left to right.
    -  Applies a transition effect from upper-left side to lower-right side.
    -  Applies a horizontal transition effect.
    -  Applies a vertical transition effect.
    -  Applies a horizontal transition effect by intersecting an image.
  - You can set the interval between 1/3/5/10 seconds.
3. Select whether you want to repeat the slideshow.
4. Select **Start** and press OK to play the slideshow.












If you want to pause it at any time, press OK. Press OK again to resume playback. To stop the slideshow, press MENU.






## Deleting files

Removes selected or all files.


To delete files:

1. In **Playback** mode, press MENU >  > **Delete** > OK or .
2. Press  $\frac{AE-L}{AF-L}$  or  to select one of the following options.
  - To delete one file, select **One** and press OK.
  - Press  or  to select the file that you want to delete.
  - Press  $\frac{AE-L}{AF-L}$  or  to select **Delete**.
  - To delete the selected file, select **Select** and press OK.
  - Press  or  to select the file that you want to delete and press OK to mark the files.
  - When the file selection is complete, press MENU.
  - Press  $\frac{AE-L}{AF-L}$  or  to select **Delete**.
  - To delete all files, select **All** > **Delete**.
3. Press OK to confirm the file deletion.

To delete only the attached voice memo on the current file:

1. In **Playback** mode, press  or  to select the image with the voice memo that you want to delete.
2. Press MENU >  > **Delete** > OK or .
3. Press  $\frac{AE-L}{AF-L}$  or  to select **Voice Memo** > **Yes**.
4. Press OK to confirm.









You can also delete the selected file by pressing Fn. Press  $\frac{AE-L}{AF-L}$  or  to select **Delete** and press OK.


## Protecting files





Prevents selected files from accidental removal.

To protect files:

1. In **Playback** mode, press MENU >  > **Protect** > OK or .
2. Press  $\frac{AE-L}{AF-L}$  or  to select one of the following options.
  - To protect one file, select **One** and press OK.
  - Press  or  to select the file that you want to protect.
  - Press  $\frac{AE-L}{AF-L}$  or  to select **Lock**.









To unlock a protected file, select **Unlock**. The icon  disappears when the file is unlocked.

- To protect the selected file, select **Select** and press OK.
  - Press  or  to select the file that you want to protect and press OK to mark the files.
  - When the file selection is complete, press MENU.
  - Press  $\frac{AE-L}{AF-L}$  or  to select **Yes**.
  - To protect all files, select **Lock all** > **Yes**.
  - To unlock all protected files, select **Unlock all** > **Yes**.
3. Press OK to confirm.
- A icon  is displayed on the screen to indicate that the file is protected.

## Red-eye Removal

The Red Eye Correction function is used to reduce red eye in captured images. This function is only available for still images. Red eye correction can be applied to an image several times, but the quality may gradually deteriorate.

1. In **Playback** mode, press  or  to select the image you want to apply Red-eye Removal.
2. Press MENU >  > **Red-eye Removal** > OK or .
3. Press  $\overline{\text{AE-L}}$   $\overline{\text{AF-L}}$  or  to select **Start** and press OK to confirm the change.
4. Press  $\overline{\text{AE-L}}$   $\overline{\text{AF-L}}$  or  to select **Overwrite** or **Save as** and press OK button to save the image file.







You cannot use this function on images captured in **Panorama** mode.

## Voice Memo

Inserts a voice annotation to an image file.

To record a voice memo:

1. In **Playback** mode, press  or  to select the image you want to add a voice memo.
2. Press MENU >  > **Voice Memo** > OK or .
3. Select **Start** > OK to start recording your voice.
4. Select **Stop** > OK to stop recording.

To play back a voice memo:

1. Press OK to play the voice memo.
2. Press  $\overline{\text{AE-L}}$   $\overline{\text{AF-L}}$  to pause the playback. Press  $\overline{\text{AE-L}}$   $\overline{\text{AF-L}}$  again to resume the playback.
3. Press MENU to exit playback.

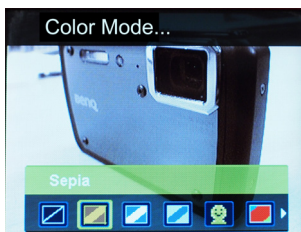
## Color Mode

You can add color filter effects to your images.

Icon	Mode	Description
	<b>Normal</b>	No effect is added to the image.
	<b>Sepia</b>	Recorded image will be stored in a sepia tone.
	<b>B/W</b>	Convert image to black & white.
	<b>Vivid Red</b>	The image becomes reddish.
	<b>Vivid Green</b>	The image becomes greenish.
	<b>Vivid Blue</b>	The image becomes bluish.

To add a color mode effect to an image:

1. In **Playback** mode, press or to select the image you want to add an effect to.
2. Press MENU > > **Color Mode** > OK or .
3. Press or to select the desired color mode.
4. Press OK to confirm the change and save the image file.



You cannot use this function on images captured in **Panorama** mode.

## Photo Effect

You can add a photo effect to your images.

Icon	Mode	Description
	<b>Normal</b>	No effect is added to the image.
	<b>Negative</b>	Colors become the opposite of what they were in the original image.
	<b>Mosaic</b>	Applies a mosaic tile effect to the image.
	<b>Astral</b>	Applies a star flickering effect.
	<b>Toy</b>	Applies with a shallow depth of field by gradually blurring the top and bottom areas of a composition.
	<b>Watercolor</b>	Applies with watercolor effect.
	<b>Sketch</b>	Applies with pencil sketch effect.

To add a photo effect to an image:

1. In **Playback** mode, press or to select the image you want to add an effect to.
2. Press MENU > > **Photo Effect** > OK or .
3. Press or to select the desired effect.
4. Press OK to confirm the change and save the image file.





## Trimming

Crops part of an image file, reduces the image size, and overwrites the image file or saves it as another new file.

To trim an image:

1. In **Playback** mode, press or to select the image you want to trim.
2. Press MENU > > **Trim** > OK or .
3. Use the **Zoom** lever to select the target image size (8M, 5M, 3M, VGA) to which you want to reduce.



4. Press  $\text{AE-L}$   $\text{AF-L}$ , , , or  to locate the area to trim.
5. Press **OK** to confirm the change.
6. Press  $\text{AE-L}$   $\text{AF-L}$  or  to select **Overwrite** or **Save as** and press **OK** button to save the image file.









You cannot trim images in the size of 3:2, 16:9, or VGA, or images captured in **Panorama** mode.

## Resizing

Changes an image file to a smaller size, and overwrites the image file or saves it as another new file.

To resize an image:

1. In **Playback** mode, press  or  to select the image you want to resize.
2. Press **MENU** >  > **Resize** > **OK** or .
3. Press  $\text{AE-L}$   $\text{AF-L}$  or  to select the target image size to which you want to reduce.
4. Press **OK** to confirm the change.
5. Press  $\text{AE-L}$   $\text{AF-L}$  or  to select **Overwrite** or **Save as** and press **OK** button to save the image file.








You cannot resize images in the size of 3:2, 16:9, or VGA, or images captured in **Panorama** mode.

## Startup Image

Sets the welcome screen when the camera is powering on.







To select a startup image:

1. In **Playback** mode, press **MENU** >  > **Startup Image** > **OK** or .
2. Press  $\text{AE-L}$   $\text{AF-L}$  or  to select one of the following options.
  - To use the default startup image, select **Default**.
  - To use a custom image, select **My Photos** and press  or  to select an image.
  - To disable the startup image, select **Off**.
3. Press **OK** to confirm.

## DPOF

The Digital Print Order Format (DPOF) setting allows you to select images on the memory card for printing and specify the number of print copies in advance using the camera. This is extremely convenient for sending the images to a photo developing service or for printing on a direct print function compatible printer.





To set up DPOF:

1. In **Playback** mode, press MENU >  > **DPOF**.
2. Press  $\frac{AE-L}{AF-L}$  or  to select one of the following options.
  - To set the DPOF setting for one image, select **One** and press OK.
    - Press  or  to select an image.
    - Press  $\frac{AE-L}{AF-L}$  or  to specify the number of copies.
    - Press F<sub>N</sub> to decide whether you want to turn the date stamp on.
  - To set the DPOF setting for all images, select **All** and press OK.
    - Press  $\frac{AE-L}{AF-L}$  or  to specify the number of copies.
    - Press F<sub>N</sub> to decide whether you want to turn the date stamp on.
  - To clear all DPOF settings to initial default, select **Reset** > **Yes**.
3. Press OK to confirm the settings.

## Radial Blur

Applies a rotating motion effect to give a feel of speed.

To apply a Radial Blur effect:

1. In **Playback** mode, press MENU >  > **Radial Blur** > OK or .
2. Press  $\frac{AE-L}{AF-L}$  or  to select a degree of Radial Blur.
3. Press OK to confirm the change.
4. Press  $\frac{AE-L}{AF-L}$  or  to select **Overwrite** or **Save as** and press OK button to save the image file.









You cannot use this function on images captured in **Panorama** mode.

## Face Retouch

Enhances and brightens the tone of skin and adjusts the eyes size so that the facial appearance looks better.

To apply a Face Retouch effect:

1. In **Playback** mode, press MENU >  > **Face Retouch** > OK or .
2. Press  $\frac{AE-L}{AF-L}$  or  to select the retouch item and press OK or  to enter the submenu.
3. Press  $\frac{AE-L}{AF-L}$  or  to adjust the desired setting and press OK to confirm.
4. After all settings are complete, press  $\frac{AE-L}{AF-L}$  or  to select **Save** and press OK to save the image file.



- The cursor on the picture frame will only appear if there is more than one face in the shot.
- Only one face can be retouched each time.
- This function is applicable only once.
- You cannot use this function on images captured in **Panorama** mode.

# Working with computer and AV system

## Bundled software

The camera offers the following programs on a CD.

ArcSoft MediaImpression™	Easily, creatively, and productively manage your multimedia files. Create your own movies or photo slide shows, and share your photo, video and music files easily through simple e-mail attachments or popular photo printing and video sharing websites.
-----------------------------	--

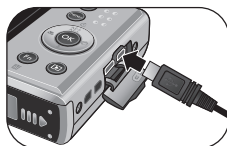
To install this program, see the information supplied with the CD.

## Connecting the camera to a computer

You can connect the camera to a PC or notebook to transfer, view, print, or edit files as well as charge the camera.

To connect the camera to a computer:

1. Connect the end of the smaller plug of the USB cable to the camera.
2. Turn on the camera.
3. Open the USB/HDMI port cover.
4. Connect the other end of the USB cable to an available USB port on your computer.
5. Select **Computer** and wait for the connection.
6. A **Removable Disk** icon appears in **My Computer**. Click this icon to access the files in your camera.



- When connecting the camera to a computer, it is necessary to install a battery into the camera.
- When connecting the camera to a computer, please use the original accessory of the USB cable to avoid possible system conflicts and damage to the camera.

## Connecting the camera to an AV system

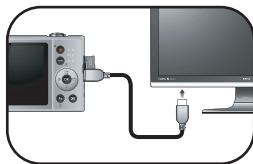
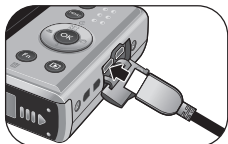
You can play files in your camera on a TV using a micro HDMI cable.



- Before connecting the camera to a TV, set the **TV Out** setting to match the TV's video output format. See ["TV Setting" on page 49](#) for details.
- For details on changing the input source of the TV, refer to the TV's user's manual.
- Some TVs may not recognize the video format (1080p or 1080i). Please check the user manual that came with the TV for more assistance.

To connect the camera to a TV using a micro HDMI cable:

1. Open the USB/HDMI port cover.
2. Connect one end of the micro HDMI cable to the camera.
3. Connect the other end of the micro HDMI cable to an HDMI TV.
4. Turn on the TV, and then switch the input source of the TV to "HDMI".
5. Turn on the camera, and operate the media playback using the camera control buttons.



To operate the media playback with the TV remote control:

1. Turn on the camera and set **HDMI Control** to **On**. See ["HDMI Control" on page 49](#).
2. Turn off the camera and connect the camera and TV with a micro HDMI cable.
3. Turn on the TV, and then switch the input source of the TV to "HDMI".
4. Turn on the camera.
5. Follow the on-screen instructions to operate the camera via the TV.



- Some TVs may not work with the TV remote control even the on-screen instructions are displayed on the camera. If this occurs, set **HDMI Control** to **Off** and operate using the camera.
- The micro HDMI and AV cables are optional accessories.



## Printing images

In addition to printing images by connecting the camera to a printer via a computer or bringing the memory card (if available) to a photo-processing center, you can choose to print using PictBridge.

### Printing with PictBridge

You can directly print images by connecting your camera to a PictBridge-compatible printer without using a computer.

To print images from a PictBridge-compatible printer:

1. Connect the end of the smaller plug of the USB cable to the camera.
2. Connect the other end of the USB cable to an available USB port on your printer.
3. Turn on the printer. Wait for a while until it finishes starting up and is ready to print.
4. Turn on the camera.
5. Select **Printer** and wait for the connection.
6. Select one of the following options:
  - To print one image at a time, select **Print One**, and press  or  to select an image.
  - To print all images at a time, select **Print All**.
  - To print all images (shown by thumbnails) at a time, select **Print Index**.
7. Press **OK**.



- The above procedure may vary depending on the printer type you are using.
- If you connect the camera to your printer while the printer is still starting up, the camera will be automatically turned off.
- Failure to follow the above procedure will make the camera show an error message. Please disconnect the camera and the camera will be automatically turned off.

# Troubleshooting and service information

If your camera cannot operate normally, see the frequently encountered problems and solutions listed below. If the problem persists, contact your nearest service center or technical support.

Problem	Cause	Solution
The camera cannot power up.	There is no battery or the battery is not inserted correctly.	Insert the battery correctly.
	The battery has no power.	Replace the battery.
The battery power is draining quickly.	The external temperature is extremely low.	--
	Many shots are being captured in dark places, requiring a flash.	--
The battery or camera is warm.	The camera or flash was used continuously over a long period of time.	--
The flash does not fire or recharge.	The camera flash is turned off.	Set the flash to Auto Flash.
	The light source is sufficient.	--
Even though the flash fired, the image is dark.	The distance to the subject is greater than the flash's effective range.	Get closer to the subject and shoot.
The image is too bright or too dark.	The exposure is excessive or inadequate.	Reset exposure compensation.
I cannot format a memory card.	The memory card is write-protected.	Remove the write protection.
	End of the memory card life.	Insert a new memory card.

Problem	Cause	Solution
I cannot download images from the camera to my computer.	The free space on the hard disk of your computer is insufficient.	Ensure that the hard disk has enough space for running Windows and that the drive for loading image files has free space equal to or greater than the memory card in the camera.
	There is no power being supplied to the camera.	Replace the battery.
The camera does not shoot even when pressing the shutter.	The battery is running low.	Replace the battery.
	The camera is not in the Capture mode.	Switch to the Capture mode.
	The shutter was not pressed all the way down.	Press the shutter all the way down.
	The internal memory or memory card does not have any free space.	Load a new card or delete unwanted files.
	The flash is recharging.	Wait until the flash mode icon, indicated on the screen, stops flashing.
	The camera does not recognize the memory card.	Format the memory card before the initial use or before using with another camera.
I cannot print images with PictBridge-compliant printers.	The camera is connected to the printer when the camera is powered off.	Connect the camera to the printer, turn on the camera, and then select <b>Printer</b> .

## Technical support


For technical assistance, free driver updates, product information, and news releases, visit the following web site:

<http://www.BenQ.com>



# Specifications

Sensor	Panasonic 14 Mega Pixels, 1/2.3 inch CMOS
Zoom	Optical: 5X Digital: Up to 5X (Preview) / Up to 12X (Playback)
Lens	f = 4.6 (W) ~ 23 (T) mm F = 3.2 (W) ~ 6.4 (T) f = 26 mm ~ 130 mm, 35 mm equivalent
Focus Range	Normal: W = 5 cm ~ Infinity, T = 60 cm ~ Infinity Super Macro: 5 cm
LCD	2.7" LCD 230k pixels
Image Resolution	14M (4320 x 3240), 8M (3264 x 2448), 5M (2560 x 1920), 3M (2048 x 1536), VGA (640 x 480)
Movie Format	FHD 1080p (1920 x 1080) 30fps, HD 720p (1280 x 720) 60fps, HD 720p (1280 x 720) 30fps, VGA (640 x 480) 30fps, QVGA (320 x 240) 120fps, HD 720p (1280 x 720) with Watercolor Continuous recording with stereo sound
Shutter Speed	1/2000 ~ 1 sec. (Fireworks 2 sec.; Night Scene 1/2000 ~ 15 sec.)
White Balance	Auto, Daylight, Cloudy, Tungsten, Fluorescent H, Fluorescent L, Manual
Exposure	-2 ~ +2 EV (0.3EV / step)
ISO	Auto / 100 / 200 / 400 / 800 / 1600 / 3200* / 6400* *3200 / 6400 for resolution of 3M or under only
Flash	Auto / Auto Anti Red-eye / Forced On / Slow Sync / Forced Off
Drive Mode	10 sec. (Self-timer) / 2 sec. (Self-timer) / Double / Off
Power Source	CIPA approximately 180 based on bundled Li-ion battery
Storage Type	Built-in approx. 42.9 MB 4GB SD / 32GB SDHC / SDXC (> 32GB) card compatible
File Format	Still Image: JPEG (EXIF 2.3 compatible); DCF compatible Video: MOV Audio: WAV

Dimensions / Weight	92.7 x 55.3 x 18.1 mm 100 g (w/o battery & SD card)
Interface	Digital output: USB 2.0 compatible Audio / Video output (NTSC/PAL/HDMI) PictBridge compatible
Accessories	USB Cable / Software & User Manual CD / Quick Guide / Hand Strap / Pouch (optional) / Li-ion battery / AC power adapter   Available accessories depend on the actual items shipped and may vary from the list above.



All information, designs, and specifications are subject to change without prior notice.